



1/9

SEQUENCE LISTING

<110> Gaudet, Daniel
Rioux, John D.
Arsenault, Steve
Hudson, Thomas J.
Daly, Mark J.

<120> Glycerol As A Predictor of Glucose
Tolerance

<130> 2825.1022-003

<140> US 09/694,088

<141> 2000-10-20

<150> US 60/161,141

<151> 1999-10-22

<160> 23

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 60

<212> DNA

<213> Unknown

<220>

<223> Partial nucleic acid sequence of the GK gene
comprising a polymorphic site at nucleotide
position 13 of exon 3

<400> 1

atgccttctt ttgtcaaaga tgggtggaac argaccctaa ggaaattcta cattctgtct 60

<210> 2

<211> 48

<212> DNA

<213> Unknown

<220>

<223> Partial nucleic acid sequence of the GK gene
comprising a polymorphic site at nucleotide
position 17 of intron 8

<400> 2

taatggtaaa aaacaaacaa amaaacaaaa aacacaccaa aaaaccaa

48

<210> 3

<211> 94

<212> DNA

<213> Unknown

<220>

<223> Partial nucleic acid sequence of the GK gene
comprising a polymorphic site at nucleotide
position 29 of exon 10

<400> 3

ttcattctcc cttcaaccat aggtatggaa caggatgttt cttactatgt ratacaggcc 60
ataaggttgg tttttaataa aaatgattaa gtca 94

<210> 4

<211> 58

<212> DNA

<213> Unknown

<220>

<223> Partial nucleic acid sequence of the GK gene
comprising a polymorphic site at nucleotide
position 22 of intron 12

<400> 4

gaaattggtg agtgtgttct aacaaaagkt tagaaaatct gaaaaatgac acatttca 58

<210> 5

<211> 8079

<212> DNA

<213> Unknown

<220>

<223> Glycerol kinase gene

<221> misc_feature

<222> 2214, 2215, 2216, 2217

<223> n = A,T,C or G

<400> 5

gggttcagcgg acgcgcgcgg cctcgggtctc tggactcgtc acctgccctt cccctcccg 60
ccgccgtcac ccaggaaacc ggccgcaatc gccggccgac ctgaagctgg tttcatggca 120
gcctcaaaga aggcagtttt ggggccattg gtgggggcgg tggaccaggg caccagttcg 180
acgcgctttt tgggtgagccc ggggtgacat gtgaagaggc gctgagctgt aaaacgacgg 240
ccagtcaccc ttgatatctg cctgcatttt tacattaata ttacaatatc tttttcaggt 300
tttcaattca aaaacagctg aactacttag tcatcatcaa gtagaaataa aacaagagtt 360
cccaagagaa gggtagtgtt cctaatttaa tatgtaaaga cacattatgt ttgttagtcc 420
atctcaccca acttgcccca atgccttctt ttgtcaaaga tgggtggaac argaccctaa 480
ggaaattcta cattctgtct atgagtgtat agagaaaaca tgtgagaaac ttggacagct 540
caatattgat atttccaaca taaaagggtat tttagtagaa tattttacc acatgtaaaa 600
cgacggccag ttgagagctg ttttcctgaa gtagtctcta cttgttaaat ttttgacttc 660
cttctgttta actttctctt taaagctatt ggtgtcagca accagaggga aaccactgta 720
gtctgggaca agataactgg agagcctctc tacaatgctg tgggtaagct gtcagtcag 780
gatgtcaa atgtaggcctt tcttcacatt gcaatgtaaa acgacggcca gttccttgat 840
agtgatttca gtaagttctt atttttttta atgaagtttt tcatgtatat tattttat 900
tgggtctatag tgtggcttga tctaagaacc cagtctaccg ttgagagtct tagtaaaaga 960
attccaggaa ataataactt tgtcaaggta agaatttctt cagaagtata ctataagaat 1020
gtttcttttt ttaaaaaaag tttgcagatt tccactagaaa gaagcatctt atggtacaat 1080
agttatttga tacaatttat agaattcttt tcccggataa ttgaggcctg taaaacgacg 1140
gccagtttct tttgtttggt gggtttgttt taaactgtta cacttttcat ttgctaactg 1200
aacttcacaa ctgcttttag tccaagacag gccttccact tagcacttac ttcagtgcag 1260
tgaaacttcg ttggctcctt gacaatgtga gaaaagttca aaaggccggt gaagaaaaac 1320
gagctctttt tgggactatt gattcatggc ttatttgggt atgttttaaat ataatggata 1380
tatggagaat ttttcagaa attttttcta gactgccttg cctattgttt ctactagcag 1440

gtcagaacttt	ttaattagca	tgtaaaacga	cggccagttg	tgctctgctg	attatgaccc	1500
ttaacaatat	gtaaattaaa	ttgccaatat	gtacaaattt	aacctgattt	ttttactctg	1560
cctagagttt	gacaggagga	gtcaatggag	gtgtccactg	tacagatgta	acaaatgcaa	1620
gtaggactat	gcttttcaac	attcattctt	tggaaatggg	taaacaactc	tgcgagtaag	1680
ttctgttttg	ctctaaatat	agttttccca	atacactacc	tatttataac	cgaaatctta	1740
atattttcag	atgtcagtgg	agcatgtaaa	acgacggcca	gtacagtgtt	aaatacccaa	1800
tcttcttggt	tttcagattt	tttggaattc	caatggaaat	tcttccaaat	gtccggagtt	1860
cttctgagat	ctatggccta	atggtaaaaa	acaaacaaam	aaacaaaaaa	cacaccaaaa	1920
aacaaaaaaa	caaacaaaaa	aaaacctaat	aattaaagtt	tttttattac	aaaacaagtt	1980
tactattcat	aattcaaaaag	tcaactgtgt	tatgttttgt	gacttaaaaa	ctttacagtc	2040
ctttttacaa	tggaaagctg	gggccttgga	agggtgtgca	atatctgggg	taagtttcat	2100
caccaagtgt	ctccccatcc	ccacccttcc	ccatgttatg	gctttcctcc	tcttagttca	2160
tcagtgtgcc	tctttttaaa	ctagggaaaa	caagtaaaaag	ttgcaaaatt	ggannntct	2220
tgttcttaca	tgtcatactg	tgggccattg	agaatctttt	gaataaatta	attttaactc	2280
tcccttccca	tacctattat	cttacatatt	aacaaatggt	attaacaaat	ggggaaaatg	2340
gccaaatgga	gaaaatgcaa	ggaaatagac	agttcattct	ttgataaata	aaaaatgaaa	2400
aataaatcct	atggctcttc	taaaaagaaa	gttaatacta	ttgtattagt	cagtgttctt	2460
tattgtcatt	tatactttca	gtgttttagg	gaccagtctg	ctgcattggg	gggacaaatg	2520
tgtctccaga	ttggacaagc	caaaaatacg	tgagtttaag	aaacagactt	aaaaaccaat	2580
gctgttttgt	tttttctact	tgggtgcttt	aataaggaaa	agcttttgaa	gttcattccag	2640
gatgaaaatc	aatagcttaa	tagctccaat	atgcataat	acacttttta	ccattttttt	2700
atatctttta	ataaaataca	aatgccata	tatatgcaca	ctgatgaagc	ttataaagac	2760
ctaaatttgt	aggctgggcg	cggttatttg	ctttcaataa	aattgtcttc	tattcattct	2820
cccttcaacc	ataggtatgg	aacaggatgt	ttcttactat	gtratacagg	ccataagggt	2880
ggttttttta	attaaaaaat	tgatttaaaa	gtctaagttc	atctaaataa	tgcttgaaca	2940
taatttacta	ttaaacaact	tttagtcttt	agcttttact	taatctttat	cagggtttta	3000
tttagagctc	aatacaaaa	ttgaatcggt	ctaataagaa	ccatttttag	ctctttgaat	3060
tttatatgtg	tgtttttaat	tgtgctgggg	ggaaatctag	actgagacct	catcaaattc	3120
ttaatgcaaa	tctaatttga	aacaaggaat	aaacttttta	tacagcttaa	atgtgttctt	3180
aattctgata	gttttgactg	taaggattta	ttttaaaaa	tggtttattg	attgcattat	3240
tttgtagcta	tgttatttta	acttttaaaa	aaagttctca	tgttatcttt	tcattttcca	3300
ctactgaaat	cttttttttt	tctttcttac	agtgtgtatt	ttctgatcat	ggccttctca	3360
ccacagtggc	ttacaaactt	ggcagagaca	aaccagtata	ttatgctttg	gaagtaagtt	3420
cttttttaat	aatatggata	atatgacaaa	cattcaaagc	taataaaaa	cacagagttt	3480
tctaacactt	ttctggtaaa	tcttaatata	gaggactcaa	aaagttctgc	tttcttgcca	3540
tttgattgag	ttgaaggaa	ctgaaactga	tctgggtgtc	aggactcaca	ggagacttg	3600
attagattgg	ttcctcagtt	cttatgccaa	ttaatcatgt	caccttaggc	atattacttg	3660
agagctctac	aatgtgaggt	tttttttttt	tttatctcta	aagtttaatc	ggattaacgt	3720
gctctctaac	atctctttca	tcttgaaaat	tctttgattt	tataaataaa	atgtctcagt	3780
gttccaaaga	gaaccctggg	cacaaatagg	cagaacaact	ctcttcactt	gtctcctcat	3840
aaaaataaat	tttgtgtaac	attttgatat	agaaaagaaa	gcgacgagat	ttatgccact	3900
tatcactgga	aacatttggt	tcaaacattt	ttgtatgtta	tagtaggaat	atgccagcct	3960
aagcctatat	tttattagt	acttagataa	aactatgttt	gtattagaag	acctagttta	4020
catatttgtc	ggagtcctca	aatggaaact	gaattctgtc	catctgattg	tgtcatacac	4080
agaatatgct	caataaaaa	cttgगतat	gataaaaat	attctgtctt	gaattccttt	4140
ttttcttttag	ggttctgtag	ctatagctgg	tgtgttatt	cgctggctaa	gagacaatct	4200
tgggaattata	aagacctcag	aagaaattgg	tgagtgtgtt	ctaacaaaag	kttagaaaat	4260
ctgaaaaatg	acacatttca	gtattttatc	tctgcaaagt	aaatatcgat	gctttgcccc	4320
aaatgtgatc	cagttgtgtg	atttttgttt	tgttttgttt	taatgttaga	aaaacttgct	4380
aaagaagtag	gtacttctta	tggctgctac	ttcgtcccag	catttttcggg	gtaatatgca	4440
ccttattggg	agcccagcgc	aagagggtaa	gtattgaaaa	tatggagtgc	ttttggggat	4500
ccttgatttat	tgtaaaacga	cggccagttg	attatgtcca	attttctctt	cctggacatt	4560
tctgtctacc	aaatttgacc	ttttcatatt	tgagatat	caaattgatt	ggtttatatc	4620
attctaattc	gaaaatcttt	gtgcgtat	ttaggataat	ctgtggactc	actcagttca	4680
ccaataaatg	ccatattgct	tttgctgcat	tagaagctgt	ttgtttccaa	actcgagagg	4740
taacaaatat	gggcctgttt	tcttgacttt	agttcacttt	tatcactctt	aagttatatg	4800
ttaacacccg	agattttattc	agtactgaaa	atgtagttta	tcaaatatta	aggctgccta	4860
aataactaatc	taaataataag	caggggtttt	cccccttttc	cagctgtcat	taccttctaa	4920
gttctgttgc	cctgtcaggc	actgggaat	ttatggttgt	ggggaggctg	agtggcacac	4980

attaggcaaaa	ggaaacagca	caaacatagg	catcaaggca	gaaaaacag	gtgcaaaaata	5040
gagttgtata	gcttagctga	atatcaaggt	gaatgcagag	gtgtagtgag	agaaaaggtt	5100
ggctgtgacc	agatcaaaga	gggcttagaa	gaccagaata	agaagtctca	atattattcca	5160
taggctcttg	gaagctcttg	agagtttctg	agtggaggat	tgccattttc	agagatgtta	5220
ctatgaaata	gatttataac	attaattgca	ctggttttatt	taagattttg	gatgccatga	5280
atcgagactg	tggaaattcca	ctcagtcatt	tgcaggtaga	tggaggaatg	accagcaaca	5340
aaattcttat	gcagctacaa	gcagacattc	tgtatatacc	agtaggttag	taagtcttca	5400
ttccttttaa	ctcccagagt	aatgtttctt	gtggaataac	tagttctttg	ggtgtaaaac	5460
gacggccagt	tcccagagta	atgtttcttg	tggaaataact	agttcttttg	gcatatgtaa	5520
ccacaaagat	attgatggaa	ctctctctcc	tcagtgaagc	cctcaatgcc	cgaaaccact	5580
gcactgggtg	cggctatggc	ggcaggggct	gcagaaggag	tcggcgtatg	gagtctcgaa	5640
cccaggattt	tgtctgccgt	cacgatggag	cggtttgaac	ctcagattaa	tgccggagggt	5700
acattttaaag	aatgaaatgt	tcagtgatata	actgtgaaaa	cgaccttagt	gcacgggagt	5760
tttgtttttc	tgttttagtta	aaagttaaagg	aaccaagtaa	aatagtaaat	gttatcattg	5820
cagattcggc	tgccaagcat	attgggcttt	actgaataaa	tgtgaatgag	agaaatcggt	5880
gcttatcaaa	agaacttcta	aaatcacttt	ttaaaaatca	tttgtaaaac	gacggccagt	5940
agccctactg	cagtttaaatg	tgtcaataat	ttgtcaagaa	tgttgagtga	tcataagtat	6000
ggtactaaga	acatctcagc	aaactacctt	tcgttatgtg	ttttttctac	cttctaattc	6060
tagaaagtga	aattcgttat	tctacatgga	agaaagctgt	gatgaagtca	atgggttggg	6120
ttacaactca	atctccagaa	agtggtaaaa	atgtttttgt	ttattattgt	cacattttct	6180
tagtatatta	aatagttatt	taagtatcta	ggcattttaca	catagccagg	ctgctctgaa	6240
gaaaagcatt	atcatatgtc	cagagattct	gacattttga	aaacacttta	aagttctaaa	6300
cacaaaatgt	aaattatcag	gtgttgtaaa	acgacggcca	gttggtttgg	tttgcttgac	6360
tggaaatctc	tctgcttgga	tgaccacagg	tgaccctagt	atcttctgta	gtctgccctt	6420
gggctttttt	atagttagta	gcatggtaat	gttaatcgga	gcaaggtaaa	tctcaggtta	6480
gttactcttt	aaattagaca	actctattag	ttagctttaa	tgttttcgtg	tataacttag	6540
cagaaatttt	tcagtgtttt	tcattctttc	tgtgtctagg	aagctggaaa	atcaattaaa	6600
ggtctaatta	gttagacca	ttaatctttg	ggggcagtta	gaagtaagaa	ctgtgactct	6660
gcttaccctt	tttaaatttt	taatgtgatg	acttctttta	gagggactac	attctgtctg	6720
cagctgcagc	aataagcaaa	agtgaaaata	ctaataattta	aatgacagga	ctttcagact	6780
gactgctgaa	agttaaagta	tacttaaaat	tactggctta	aatggaaatg	atgcttctta	6840
ttctgtatgt	tcccatgaaa	gtgaaactta	aaaaaaaaat	tcatgattag	ggtttcatga	6900
aaaggccttg	tttctatgaa	aattgagaca	ggttgcatct	ctctaagcta	aaagatgggc	6960
tatgtgtcta	gagtcttaga	cttctaaaaat	gcatgtggtc	actatatgta	ggttatctct	7020
tcggtgacat	acactgcaat	ttgagagggc	tggaaattgt	ttgccttggg	aaacgattag	7080
caacagtggc	aataatttgtt	aattttggaa	ttggccctgt	ttgttgcat	ttaattgtga	7140
ggcatgattt	agaaatcata	tggactttct	agcttaataa	atgattgaat	catctgcatt	7200
gctttaactc	ctgaattgta	tgcattgtatt	attgacatat	atggtttttg	ttccccattt	7260
caggattatt	ataaaaccta	ccaactcatg	gattcccaag	atgtgagctt	tttacataat	7320
gaaagaaccc	agcaattctg	tctcttaatg	caatgacact	attcatagac	tttgatttta	7380
tttataagcc	acttgctgca	tgaccctcca	agtagacctg	tggcttaaaa	taaagaaaat	7440
gcagcaaaaa	gaatgctata	gaaatatttg	gtggtttttt	ttttttttta	acatccacag	7500
ttaaggttgg	gccagctacc	tttggggctg	acccctccca	ttgccataac	atcctgctcc	7560
attccctcta	agatgtagga	agaattcgga	tccttaccat	tggaaatctc	catcgaacat	7620
actcaaacac	ttttggacca	ggatttgagt	ctctgcatga	catatacttg	attaaaagggt	7680
tattactaac	ctgttaaaaa	tcagcagctc	tttgctttta	agagacaccc	taaaagtctt	7740
cttttctaca	tagttgaaga	cagcaacatc	ttcactgaat	gtttgaatag	aaacctctac	7800
taaattatta	aaatagacat	ttagtgttct	cacagcttgg	atatttttct	gaaaagttat	7860
ttgccaacaa	tgaaatcctt	cagatgtttt	ccatgggtccc	actaattata	atgactttct	7920
gtctgggtct	tataggaaaa	gatactttct	tttttcttcc	atctttcctt	tttatatttt	7980
ttactttgta	tgtataacat	acatgcctat	atattttata	cactgagggg	gcccatttat	8040
aaataaagag	cacattatat	tcagaaggtt	ctaacagggt			8079

<210> 6

<211> 41

<212> PRT

<213> Unknown

<220>

<223> GK N288D mutant

<400> 6

Phe	Gln	Ile	Gly	Gln	Ala	Lys	Asn	Thr	Tyr	Gly	Thr	Gly	Cys	Phe	Leu
1				5					10					15	
Leu	Cys	Asp	Thr	Gly	His	Lys	Cys	Val	Phe	Ser	Asp	His	Gly	Leu	Leu
			20					25					30		
Thr	Thr	Val	Ala	Tyr	Lys	Leu	Gly	Arg							
		35					40								

<210> 7

<211> 41

<212> PRT

<213> Homo sapiens

<400> 7

Phe	Gln	Ile	Gly	Gln	Ala	Lys	Asn	Thr	Tyr	Gly	Thr	Gly	Cys	Phe	Leu
1				5					10					15	
Leu	Cys	Asn	Thr	Gly	His	Lys	Cys	Val	Phe	Ser	Asp	His	Gly	Leu	Leu
			20					25					30		
Thr	Thr	Val	Ala	Tyr	Lys	Leu	Gly	Arg							
		35					40								

<210> 8

<211> 41

<212> PRT

<213> Unknown

<220>

<223> Rat

<400> 8

Phe	Gln	Asp	Gly	Gln	Ala	Lys	Asn	Thr	Tyr	Gly	Thr	Gly	Cys	Phe	Leu
1				5					10					15	
Leu	Cys	Asn	Thr	Gly	His	Lys	Cys	Val	Phe	Ser	Glu	His	Gly	Leu	Leu
			20					25					30		
Thr	Thr	Val	Ala	Tyr	Lys	Leu	Gly	Arg							
		35					40								

<210> 9

<211> 41

<212> PRT

<213> Unknown

<220>

<223> Mouse

<400> 9

Phe	Gln	Asp	Gly	Gln	Ala	Lys	Asn	Thr	Tyr	Gly	Thr	Gly	Cys	Phe	Leu
1				5					10					15	
Leu	Cys	Asn	Thr	Gly	His	Lys	Cys	Val	Phe	Ser	Glu	His	Gly	Leu	Leu
			20					25					30		
Thr	Thr	Val	Ala	Tyr	Lys	Leu	Gly	Arg							
		35					40								

<210> 10
 <211> 39
 <212> PRT
 <213> E. coli

<400> 10
 Val Lys Glu Gly Met Ala Lys Asn Thr Tyr Gly Thr Gly Cys Phe Met
 1 5 10 15
 Leu Met Asn Thr Gly Glu Lys Ala Val Lys Ser Glu Asn Gly Leu Leu
 20 25 30
 Thr Thr Ile Ala Cys Gly Pro
 35

<210> 11
 <211> 39
 <212> PRT
 <213> Pseudomonas aeruginosa

<400> 11
 Val Glu Pro Gly Gln Ala Lys Asn Thr Tyr Gly Thr Gly Cys Phe Leu
 1 5 10 15
 Leu Met His Thr Gly Asp Lys Ala Val Lys Ser Thr His Gly Leu Leu
 20 25 30
 Thr Thr Ile Ala Cys Gly Pro
 35

<210> 12
 <211> 39
 <212> PRT
 <213> Enterococcus casseliflavus

<400> 12
 Phe Glu Lys Gly Met Ile Lys Asn Thr Tyr Gly Thr Gly Ala Phe Ile
 1 5 10 15
 Val Met Asn Thr Gly Glu Glu Pro Gln Leu Ser Asp Asn Asp Leu Leu
 20 25 30
 Thr Thr Ile Gly Tyr Gly Ile
 35

<210> 13
 <211> 41
 <212> PRT
 <213> Haemophilus influenzae

<400> 13
 Val His Ala Gly Gln Ala Lys Asn Thr Tyr Gly Thr Gly Cys Phe Met
 1 5 10 15
 Leu Leu His Thr Gly Asn Lys Ala Ile Thr Ser Lys Asn Gly Leu Leu
 20 25 30
 Thr Thr Ile Ala Cys Asn Ala Lys Gly
 35 40

<210> 14
 <211> 39
 <212> PRT

<213> *Bacillus subtilis*

<400> 14

Phe	Glu	Glu	Gly	Met	Gly	Lys	Asn	Thr	Tyr	Gly	Thr	Gly	Cys	Phe	Met
1				5					10					15	
Leu	Met	Asn	Thr	Gly	Glu	Lys	Ala	Ile	Lys	Ser	Glu	His	Gly	Leu	Leu
			20					25					30		
Thr	Thr	Ile	Ala	Trp	Gly	Ile									
		35													

<210> 15

<211> 41

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 15

Tyr	Lys	Pro	Gly	Ala	Ala	Lys	Cys	Thr	Tyr	Gly	Thr	Gly	Cys	Phe	Leu
1				5					10					15	
Leu	Tyr	Asn	Thr	Gly	Thr	Lys	Lys	Leu	Ile	Ser	Gln	His	Gly	Ala	Leu
			20					25					30		
Thr	Thr	Leu	Ala	Phe	Trp	Phe	Pro	His							
		35					40								

<210> 16

<211> 41

<212> PRT

<213> *Mycoplasma genitalium*

<400> 16

Thr	Glu	Pro	Gly	Met	Val	Lys	Asn	Thr	Tyr	Gly	Thr	Gly	Cys	Phe	Val
1				5					10					15	
Leu	Met	Asn	Ile	Gly	Asp	Lys	Pro	Thr	Leu	Ser	Lys	His	Asn	Leu	Leu
			20					25					30		
Thr	Thr	Val	Ala	Trp	Gln	Leu	Glu	Asn							
		35					40								

<210> 17

<211> 39

<212> PRT

<213> *Enterococcus faecalis*

<400> 17

Phe	Glu	Pro	Gly	Met	Val	Lys	Asn	Thr	Tyr	Gly	Thr	Gly	Ser	Phe	Ile
1				5					10					15	
Val	Met	Asn	Thr	Gly	Glu	Glu	Pro	Gln	Leu	Ser	Lys	Asn	Asn	Leu	Leu
			20					25					30		
Thr	Thr	Ile	Gly	Tyr	Gly	Ile									
		35													

<210> 18

<211> 41

<212> PRT

<213> *Mycoplasma pneumoniae*

<400> 18
 Val Glu Pro Ala Met Val Lys Asn Thr Tyr Gly Thr Gly Cys Phe Met
 1 5 10 15
 Leu Met Asn Ile Gly Asn Glu Leu Lys Tyr Ser Gln His Asn Leu Leu
 20 25 30
 Thr Thr Val Ala Trp Gln Leu Glu Asn
 35 40

<210> 19
 <211> 41
 <212> PRT
 <213> Synechocystis PCC6803

<400> 19
 Asp Arg Pro Gly Leu Leu Lys Cys Thr Tyr Gly Thr Gly Ala Phe Leu
 1 5 10 15
 Val Ala Asn Thr Gly Gln Thr Val Thr Arg Ser Gln His Arg Leu Leu
 20 25 30
 Ser Thr Val Ala Trp Thr Gln Thr Asn
 35 40

<210> 20
 <211> 12
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> GK gene polymorphism

<400> 20
 ggacargacc ct 12

<210> 21
 <211> 16
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> GK gene polymorphism

<400> 21
 aaacaaahaa acaaaa 16

<210> 22
 <211> 13
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> GK gene polymorphism

<400> 22
 actatgtrat aca 13

<210> 23
 <211> 16
 <212> DNA

<213> Artificial Sequence

<220>

<223> GK gene polymorphism

<400> 23

aacaaaagkt tagaaa

16

B2
Conclude